

In the Claims

Please amend the Claims as follows:

1. (Amended) A flow sensor, [in particular suitable for
use in air flow measuring] having an impeller which is
suspended for free rotation in a tube section and which
comprises a central core and a number of blades
extending from the core, wherein at least one blade
extends from the core to adjacent [the] an inner wall of
the tube section, wherein measuring means are included
for measuring the number of revolutions of the impeller
per unit of time, and wherein the flow sensor is adapted
to register[, when a calibration flow rate is passed
through the tube an associated] a calibration speed of
the impeller associated with a calibration flow rate by
[means of the] a measuring means, wherein [to at least a
series of cross sections of the blade it applies that] a
[the] blade angle in at least a series of cross sections
of the blade substantially meets the formula

$$[\text{tg}(H(r)) * \text{Caldeb} * C] / [r * D^2] = \text{Calrev}$$

wherein

r = distance section relative to the center of the
core (m);

21 H(r) = blade angle of section at distance r($^{\circ}$);
22 Caldeb = calibration flow rate (m³/h)
23 Calrev = calibration speed (rev/min)
24 D = diameter tube section (m)
25 wherein $0.003 < C < 0.004$ and C is preferably 6.67/1974.

Claim 5, line 25, please delete "the or."

Claim 14, lines 35-36, please delete "in one of the
boundaries of a space to be ventilated."

Claim 17, line 30, please delete "for the manufacture of" and
insert --of using the--.

Claim 20, line 22, please delete "the or."

Claim 22, line 3, please delete "in one of the boundaries of
a space to be ventilated."

REMARKS

The title, abstract, specification and claims have been
amended or added to reflect the Examiner's comments. Applicants
herewith include an amendment to the formal drawings to include a